

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	22	"5402142"	US-PGPUB; USPAT	OR	ON	2008/08/03 12:16
L2	0	05-210121	US-PGPUB; USPAT	OR	ON	2008/08/03 12:16
L3	0	05-210121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/03 12:16
L4	3	"05210121"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/03 12:16
L8	1	"20020063669"	US-PGPUB; USPAT	OR	ON	2008/08/03 13:34
L10	560	viewing same angle same lcd same wid\$4 and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2008/08/03 13:35
L11	68	viewing same angle same lcd same wid\$4 and "345"/\$5.ccls. and vcom	US-PGPUB; USPAT	OR	ON	2008/08/03 13:38
L12	18	"5686932"	US-PGPUB; USPAT	OR	ON	2008/08/03 14:19
L13	0	"2001003431"	US-PGPUB; USPAT	OR	ON	2008/08/03 14:19
L14	1	"20010003431"	US-PGPUB; USPAT	OR	ON	2008/08/03 14:19
S1	45	((YOSHINORI) near2 (OGAWA)).INV.	US-PGPUB; USPAT	OR	ON	2007/12/18 11:34
S2	36	((SHIGEKI) near2 (TANAKA)).INV.	US-PGPUB; USPAT	OR	ON	2007/12/18 11:34
S3	1973	345/98.ccls.	US-PGPUB; USPAT	OR	ON	2007/12/18 11:34
S4	71954	"345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2007/12/18 11:35
S5	39355	scan near1 line	US-PGPUB; USPAT	OR	ON	2007/12/18 11:35
S6	3183	pixel near1 capacitor	US-PGPUB; USPAT	OR	ON	2007/12/18 11:35
S7	33747	common near1 electrode	US-PGPUB; USPAT	OR	ON	2007/12/18 11:35
S8	162523	lcd	US-PGPUB; USPAT	OR	ON	2007/12/18 11:36

## EAST Search History

S9	4933	twist near1 angle	US-PGPUB; USPAT	OR	ON	2007/12/18 11:36
S10	833359	perpendicular	US-PGPUB; USPAT	OR	ON	2007/12/18 11:36
S11	25005	counter near1 electrode	US-PGPUB; USPAT	OR	ON	2007/12/18 11:36
S12	140068	wider and (view or visual) and angle	US-PGPUB; USPAT	OR	ON	2007/12/18 11:41
S13	1	10/727645	US-PGPUB; USPAT	OR	ON	2007/12/18 11:44
S14	2105075	pixel same1 group	US-PGPUB; USPAT	OR	ON	2007/12/18 11:44
S15	85050	voltage near3 adjust\$4	US-PGPUB; USPAT	OR	ON	2008/07/31 10:02
S16	8666	voltage near3 adjust\$4 and pixel	US-PGPUB; USPAT	OR	ON	2007/12/18 11:44
S17	2336	voltage near3 adjust\$4 and pixel and lcd	US-PGPUB; USPAT	OR	ON	2007/12/18 11:46
S18	1097	S17 and S4	US-PGPUB; USPAT	OR	ON	2007/12/18 11:45
S19	125	S17 and S3	US-PGPUB; USPAT	OR	ON	2007/12/18 11:45
S20	13	S17 and S3 and S6	US-PGPUB; USPAT	OR	ON	2007/12/18 11:45
S21	730	voltage near3 adjust\$4 and pixel and lcd and S7	US-PGPUB; USPAT	OR	ON	2007/12/18 11:46
S22	498	voltage near3 adjust\$4 and pixel and lcd and S7 and capacitor	US-PGPUB; USPAT	OR	ON	2007/12/18 11:46
S23	143	voltage near3 adjust\$4 and pixel and lcd and S7 and capacitor and gamma	US-PGPUB; USPAT	OR	ON	2007/12/18 11:49
S24	15	voltage near3 adjust\$4 and pixel and lcd and S7 and capacitor and gamma and (constant near1 current)	US-PGPUB; USPAT	OR	ON	2007/12/18 11:49
S25	14	("5745092"   "5774106"   "6157335"   "6166725"   "6172661").PN. OR ("6437716").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/18 11:53
S26	2	"20030156104"	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/18 11:54
S27	8	("5617111"   "5774106"   "5952789"   "6127997"   "6232948"   "6522319"   "6856308").PN. OR ("7068292").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/18 12:19
S28	1	10/727645	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/18 12:34

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S29	2	09/731736	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/18 12:34
S30	0	2001/0003431	US-PGPUB; USPAT	OR	ON	2008/06/30 12:17
S31	1	"20010003431"	US-PGPUB; USPAT	OR	ON	2008/06/30 12:29
S32	1	"7088331"	US-PGPUB; USPAT	OR	ON	2008/06/30 12:40
S33	388	345/103.ccls.	US-PGPUB; USPAT	OR	ON	2008/06/30 12:40
S34	136	345/103.ccls. and (common near2 electrode)	US-PGPUB; USPAT	OR	ON	2008/06/30 12:41
S35	9	345/103.ccls. and (common near2 electrode) same adjust\$4	US-PGPUB; USPAT	OR	ON	2008/06/30 12:44
S36	10	345/103.ccls. and ((common near2 electrode) or vcom) same adjust\$4	US-PGPUB; USPAT	OR	ON	2008/06/30 12:47
S37	5	("20010015716"   "20020005846"   "20030043105"   "20030057857"   "6496172").PN. OR ("7042437").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/30 12:45
S39	11	345/103.ccls. and ((common near2 (electrode or voltage)) or vcom) same adjust\$4	US-PGPUB; USPAT	OR	ON	2008/06/30 12:49
S40	162	345/103.ccls. and ((common near2 (electrode or voltage)) or vcom)	US-PGPUB; USPAT	OR	ON	2008/06/30 12:54
S41	32	345/103.ccls. and ((common near2 (electrode or voltage)) or vcom) same ((odd and even) group)	US-PGPUB; USPAT	OR	ON	2008/06/30 12:57
S42	35	345/103.ccls. and (((common or counter) near2 (electrode or voltage)) or vcom) same ((odd and even) group)	US-PGPUB; USPAT	OR	ON	2008/06/30 13:05
S43	12441	((common or counter) near2 (electrode or voltage)) or vcom) same ((odd and even) group adjust\$5)	US-PGPUB; USPAT	OR	ON	2008/06/30 13:05
S44	21243	345/5\$5 (((common or counter) near2 (electrode or voltage)) or vcom) near3 ((odd and even) group adjust\$5)	US-PGPUB; USPAT	OR	ON	2008/06/30 13:06
S45	19797	345/5\$5 (((common or counter) near2 (electrode or voltage))near2 adjust\$5)	US-PGPUB; USPAT	OR	ON	2008/06/30 13:06
S46	33	345/5\$5 and (((common or counter) near2 (electrode or voltage))near2 adjust\$5)	US-PGPUB; USPAT	OR	ON	2008/06/30 13:06
S47	280	"345"/\$5.ccls. and (((common or counter) near2 (electrode or voltage))near2 adjust\$5)	US-PGPUB; USPAT	OR	ON	2008/06/30 13:06
S48	6	("20020109655"   "5751267"   "6297791"   "6600465"   "6784863"   "7084849").PN. OR ("7385580").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/30 13:09

## EAST Search History

S49	4	("20020135575"   "20020186230"   "6373419"   "6762565").PN. OR ("7307610").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/30 13:13
S50	1	"11265426"	US-PGPUB; USPAT	OR	ON	2008/06/30 13:35
S51	0	"11265426"10/709849	US-PGPUB; USPAT	OR	ON	2008/06/30 13:35
S52	1	10/709849	US-PGPUB; USPAT	OR	ON	2008/06/30 13:36
S53	1	"20040227895"	US-PGPUB; USPAT	OR	ON	2008/06/30 13:40
S54	6	((("7002594") or ("5386247") or ("6870576"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/30 14:32
S55	237	(adjust\$4 adj ((common counter) near1 (electrode voltage)))	US-PGPUB; USPAT	OR	ON	2008/06/30 14:33
S56	135	(adjust\$4 adj ((common counter) near1 (electrode voltage))) and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2008/06/30 14:58
S57	24	("4393380"   "4413256"   "5184118"   "5214417").PN. OR ("5402142").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/30 14:36
S58	23	("4319237"   "4626841"   "4917469"   "5119085"   "5179371"   "5214418"   "5398042").PN. OR ("5748171").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/30 14:53
S59	3	(adjust\$4 adj ((common counter) near1 (electrode voltage))) same (odd and even)	US-PGPUB; USPAT	OR	ON	2008/06/30 15:01
S60	32	(adjust\$4 adj ((common counter) near1 (electrode voltage))) and (odd and even)	US-PGPUB; USPAT	OR	ON	2008/06/30 15:05
S61	708	((common counter) near1 (electrode voltage)) same (odd and even)	US-PGPUB; USPAT	OR	ON	2008/06/30 15:06
S62	708	((common counter) near1 (electrode voltage)) same (odd and even)	US-PGPUB; USPAT	OR	ON	2008/06/30 15:07
S63	387	((common counter) near1 (electrode voltage)) same (odd and even) and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2008/06/30 15:07
S64	418	((common counter) near1 (electrode voltage) or vcom) same (odd and even) and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2008/06/30 15:15
S65	2	10/102453	US-PGPUB; USPAT	OR	ON	2008/06/30 15:16

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S66	19	("20020008795"   "20020075249"   "20020149323"   "20020196243"   "20030058208"   "20030117464"   "20030151572"   "20030201447"   "20030222311"   "4952031"   "5392058"   "5430462"   "5706022"   "5748165"   "6078379"   "6091393"   "6300926"   "6489952"   "6628258").PN. OR ("7006064").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/30 15:16
S67	1	10/986098	US-PGPUB; USPAT	OR	ON	2008/07/01 09:57
S68	1	2004/0061999	US-PGPUB; USPAT	OR	ON	2008/07/01 09:58
S69	2	"20020118168"	US-PGPUB; USPAT	OR	ON	2008/07/01 10:05
S70	0	"10727645"	US-PGPUB; USPAT	OR	ON	2008/07/01 10:05
S71	1	"10/727645"	US-PGPUB; USPAT	OR	ON	2008/07/01 10:05
S72	921	adjust\$4 near3 ((common counter) near2 (electrode voltage))	US-PGPUB; USPAT	OR	ON	2008/07/01 10:29
S73	236	adjust\$4 near3 ((common counter) near2 (electrode voltage)) and "345"/\$5.ccls.	US-PGPUB; USPAT	OR	ON	2008/07/01 10:30
S74	6	("20020109655"   "5751267"   "6297791"   "6600465"   "6784863"   "7084849").PN. OR ("7385580").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/01 10:42
S75	26	adjustable near1 voltage near2 common	US-PGPUB; USPAT	OR	ON	2008/07/09 08:50
S76	46	adjustable near2 voltage near2 common	US-PGPUB; USPAT	OR	ON	2008/07/09 08:50
S77	6	"6181310"	US-PGPUB; USPAT	OR	ON	2008/07/09 09:15
S78	24	("4393380"   "4413256"   "5184118"   "5214417").PN. OR ("5402142").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/09 09:41
S79	1	10/727645	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/09 09:41
S80	2	09/977912	US-PGPUB; USPAT	OR	ON	2008/07/09 12:02
S81	1	10/727645	US-PGPUB; USPAT	OR	ON	2008/07/09 12:07
S82	798	multi\$1domain near3 liquid near2 crystal	US-PGPUB; USPAT	OR	ON	2008/07/09 12:09
S83	3	multi\$1domain near3 liquid near2 crystal and (adjustable near3 common)	US-PGPUB; USPAT	OR	ON	2008/07/09 12:18
S84	0	"10727645"	US-PGPUB; USPAT	OR	ON	2008/07/09 12:18

## EAST Search History

S85	1	"10/727645"	US-PGPUB; USPAT	OR	ON	2008/07/09 12:18
S86	1	"7015980"	US-PGPUB; USPAT	OR	ON	2008/07/09 14:04
S87	4	"7105980"	US-PGPUB; USPAT	OR	ON	2008/07/09 14:05
S88	1	"7015980"	US-PGPUB; USPAT	OR	ON	2008/07/09 14:05
S89	2	"7015890"	US-PGPUB; USPAT	OR	ON	2008/07/09 14:06
S90	50	"5867140"	US-PGPUB; USPAT	OR	ON	2008/07/22 15:29
S91	2	("5867140").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/07/22 15:31
S92	2	("6809711").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/07/22 15:31
S93	2	("11157627").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/07/31 10:02
S94	0	"11157627"	US-PGPUB; USPAT	OR	ON	2008/07/31 10:02
S95	1	"11/157627"	US-PGPUB; USPAT	OR	ON	2008/07/31 10:03